

## IMPROVED POWER CONTROL IN SPREAD SPECTRUM COMMUNICATIONS SYSTEMS

### ABSTRACT OF THE DISCLOSURE

A method for power control in spread spectrum communication systems includes a first step of providing multiplexed registers coupled to a control circuit and controlled by a control signal. A next step includes measuring a transmit power. Next steps include receiving TPC information, and determining whether the TPC information calls for an increase or decrease in power. A next step includes comparing the TPC information to the last TPC information, wherein if the TPC information is the same as the last TPC information, calculating a new power control value using the TPC information and measured transmit power, and writing the new power control value to the next selected register. A next step includes applying the control signal corresponding to the next selected register to the multiplexer to couple the value of next selected register to the control circuit.